

Claims

1 1. A sensor apparatus comprising;
2 a housing including a cavity;
3 a first end cap on one end of the housing;
4 a second end cap on an opposite end of the housing;
5 a sensor module coupled to the first end cap and supported within the
6 housing cavity, including a plurality of sensor packages, each
7 sensor package having an axis of sensitivity positioned in a
8 different spatial direction;
9 a plurality of first sealing members for sealing the interface between the
10 first end cap and the housing;
11 a plurality of second sealing members for sealing the interface between
12 the second end cap and the housing;
13 a plurality of first coupling members for coupling the first end cap to the
14 housing; and
15 a plurality of second coupling members for coupling the second end cap to
16 the housing.

1 2. A sensor package comprising;
2 a package; and
3 a sensor coupled to the package.

1 3. A sensor assembly package, comprising;
2 a plurality of sensor packages, each sensor package having an axis of
3 sensitivity; and
4 wherein each sensor package is positioned with its axis of sensitivity in a
5 different spatial direction.

1 4. A method of coupling a controller onto a package, comprising; dispensing
2 an adhesive on the package;
3 placing the controller onto the adhesive;

1 curing the adhesive;
2 wire-bonding the controller to the package; and
3 encapsulating the controller and the wire bonds.

1 5. A method of assembling a sensor package including a package and a
2 sensor, comprising coupling the sensor to the package.

1 6. A method of assembling a multi-axis sensor assembly, comprising:
2 a plurality of sensor packages, each sensor package having an axis of
3 sensitivity; and
4 positioning each sensor package with its axis of sensitivity in a different
5 spatial direction.

1 7. A sensor module package comprising;
2 one or more substrates including one or more slots; and
3 one or more sensors positioned within the slots.

1 8. A method of assembling a sensor package comprising one or more
2 substrates and one or more sensors, comprising coupling the sensor to
3 the substrates.

Add A1 >